Appl. No. 10/849,604
Response Dated May 30, 2008
Reply to Office Action of April 1, 2008

Docket No.: 1020.P19074
Examiner: Sobutka, Philip
TC/A.U. 2618

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1.   (Currently Amended) A system, comprising:

an antenna;

a radio management module to connect to said antenna, said radio management module to comprise:

a set of application modules 1-M

a set of radios 1-N; and

a power management module to connect to said application modules 1-M and said radios 1-N, said power management module to receive a request for a data connection from one of said application modules 1-M, select a data connection radio from said set of radios 1-N in accordance with a radio selection policy, and establish said data connection using said data connection radio, wherein said radio selection policy comprises a set of rules to select said data connection radio based on a minimum bandwidth requirement for said application modules 1-M.

2.   (Original) The system of claim 1, wherein said radio selection policy comprises a set of rules to select said data connection radio based on a power source for said radios.

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3.   (Original) The system of claim 1, further comprising a power source interface to

connect to said power management module, said power source interface to indicate a

connection to an external power source or an internal power source.

4.   (Original) The system of claim 3, wherein said external power source comprises

an alternating current power supply, and said internal power source comprises a direct

current power supply.

5.   (Original) The system of claim 3, wherein said power management module selects

said data connection radio using a set of radio bandwidth values corresponding to said

radios 1-N if said power source interface indicates a connection to an external power

source.

6.   (Original) The system of claim 3, wherein said power management modules

selects said data connection radio using a set of radio power cost values corresponding to

said radios 1-N if said power source interface indicates a connection to an internal power

source.

7.   (Currently Amended) An apparatus, comprising:

        a set of application modules 1-M;

        a set of radios 1-N; and

        a power management module to connect to said application modules 1-M and said

radios 1-N, said power management module to receive a request for a data connection

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from one of said application modules 1-M, select a data connection radio from said set of

radios 1-N in accordance with a radio selection policy, and establish said data connection

using said data connection radio, wherein said radio selection policy comprises a set of

rules to select said data connection radio based on a minimum bandwidth requirement for

said application modules 1-M.

8.   (Original) The apparatus of claim 7, wherein said radio selection policy comprises

a set of rules to select said data connection radio based on a power source for said radios.

9.   (Original) The apparatus of claim 7, further comprising a power source interface

to connect to said power management module, said power source interface to indicate a

connection to an external power source or an internal power source.

10.   (Original) The apparatus of claim 9, wherein said external power source

comprises an alternating current power supply, and said internal power source comprises

a direct current power supply.

11.   (Original) The apparatus of claim 9, wherein said power management module

selects said data connection radio using a set of radio bandwidth values corresponding to

said radios 1-N if said power source interface indicates a connection to an external power

source.

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12.   (Original) The apparatus of claim 9, wherein said power management modules selects said data connection radio using a set of radio power cost values corresponding to said radios 1-N if said power source interface indicates a connection to an internal power source.

13.   (Currently Amended) A method, comprising:

receiving a request for a data connection from an application executed by a wireless device;

selecting a data connection radio from at least two radios accessible by said wireless device in accordance with a radio selection policy; and

establishing said data connection using said data connection radio, wherein said radio selection policy comprises a set of rules to select said data connection radio based on a minimum bandwidth requirement for said application modules 1-M.

14.   (Original) The method of claim 13, wherein said radio selection policy comprises a set of rules to select said data connection radio based on a power source for said radios.

15.   (Original) The method of claim 13, wherein selecting said data connection radio comprises:

retrieving a radio bandwidth value and a radio power cost value for each radio;

determining whether said radios are using an external power source or an internal power source;

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selecting said data connection radio using said radio bandwidth values if said

radios are using said external power source; and

selecting said data connection radio using said radio power cost values if said

radios are using said internal power source.

16.   (Original) The method of claim 15, wherein selecting said data connection radio

using said radio bandwidth values comprises:

retrieving a radio status value for each radio;

comparing said radio bandwidth values for all radios having said radio status value set to

active; and

selecting said data connection radio having a higher radio bandwidth value.

17.   (Original) The method of claim 15, wherein said selecting said data connection

radio using said radio power cost values comprises:

ordering said radios based on said radio power cost values from a first radio to a

last radio;

retrieving an application bandwidth value and application latency value for said

application, and a radio status value for each radio;

comparing said application bandwidth value and application latency with a radio

bandwidth value and radio latency value for each radio having said radio status value set

to active starting with said first radio; and

selecting said data connection radio having a radio bandwidth value higher than

said application bandwidth value and a radio latency value lower than said application

latency value.

18.   (Original) The method of claim 15, wherein said first radio has a lowest radio

power cost value and said last radio has a highest radio power cost.

19.   (Currently Amended) An article comprising:

        a storage medium;

said storage medium including stored instructions that, when executed by a processor, are

operable to receive a request for a data connection from an application executed by a

wireless device, select a data connection radio from at least two radios accessible by said

wireless device in accordance with a radio selection policy, and establish said data

connection using said data connection radio, wherein said radio selection policy

comprises a set of rules to select said data connection radio based on a minimum

bandwidth requirement for said application modules 1-M.

20.   (Original) The article of claim 19, wherein the stored instructions, when executed

by a processor, select said data connection radio using stored instructions operable to

retrieve a radio bandwidth value and a radio power cost value for each radio, determine

whether said radios are using an external power source or an internal power source, select

said data connection radio using said radio bandwidth values if said radios are using said

external power source, and select said data connection radio using said radio power cost

values if said radios are using said internal power source.

21.   (Original) The article of claim 20, wherein the stored instructions, when executed

by a processor, select said data connection radio using said radio bandwidth values using

stored instructions operable to retrieve a radio status value for each radio, compare said

radio bandwidth values for all radios having said radio status value set to active, and

select said data connection radio having a higher radio bandwidth value.

22.   (Original) The article of claim 20, wherein the stored instructions, when executed

by a processor, select said data connection radio using said radio power cost values using

stored instructions operable to order said radios based on said radio power cost values

from a first radio to a last radio, retrieve an application bandwidth value and application

latency value for said application and a radio status value for each radio, compare said

application bandwidth value and application latency with a radio bandwidth value and

radio latency value for each radio having said radio status value set to active starting with

said first radio, and select said data connection radio having a radio bandwidth value

higher than said application bandwidth value and a radio latency value lower than said

application latency value.